



Common Origination and Disbursement Process Current Environment Assessment

3.3 Current Environment Assessment: Application and Technology Infrastructure **Assessed against SFA Modernization Technology Drivers**

| SFA Modernization Technology Drivers | RFMS |
|---|--|
| Use of automated development & testing tools - CASE Tools - COTS products | COOL:GEN Oracle Government Financials |
| Application dev. based on consistent standards - CORBA, JAVA BEAN, EDI - Data Dictionary/encyclopedia - DB Triggers/Stored Procedures (implement business rules) - Standard SQL | EDI compliant data records Yes – generated by COOL:GEN Stored procedures All standard SQL generated by COOL:GEN |
| Web-enabled technologies - Web-enabled - Thin Clients | Yes for institutions Yes for institutions - the DoED side clients still have applications used for various functions |
| Network architecture provide standards-based means of linking systems - TCP/IP - ATM | Yes – IP No |
| Data storage - rapid access, update, and retrieval of data over period for which the data is stored | RFMS is a table-driven system capturing rules for each award year |
| Decision support tools - relational database tech. - data warehouse - ad-hoc query tools (against real-time data) | Yes – Oracle MIS, DB2 No Yes – Discoverer, QMF, SPUFI |
| Modernized N-Tiered computer infrastructure | YES – Dual 3-Tier One web enabled tier for institutions (thin clients), one tier for DoED (fat clients) |
| Use of lightweight directory access protocol (LDAP) – repository for distributed objects | No |
| COTS middleware products which tie the N-tiered architecture together - Tuxedo | No |
| Assurance of data privacy (via Web) – business channels have access to relevant public data as well as their own private data | Yes, for both web interface for institutions and DoED |



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Transaction Data

To gain a understanding of the size and complexity of the current systems we solicited information from RFMS regarding transactional and sizing data. The Campus-Based Program was not deemed a transactional system and as such was not asked to supply information.

TRANSACTIONAL DATA

RFMS

| | |
|--|------------------|
| Annual number of Pell Grants: | 3,000,000* |
| Annual number of Pell Grant Origination transactions: | 3,000,000* |
| Annual number of Pell Grant Disbursement transactions: | 3,000,000* |
| Annual GAPS disbursement amounts: | \$7,000,000,000 |
| Annual average Customer Service Requests: | 2300 calls/Month |

**Rejected Transactions and MRRs Transactions (Multiple Reporting Record) are not included, and all amounts are for the current academic year as of March 2000.*



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APPLICATION DATA

RFMS

Date Implemented: May 1999
Date of last release: January 2000
Number of Screens: 20-30
Number of reports: 35
Number of source
Programs: 20 major processes, 10 interfaces

Average time to
process incoming
batch files: 2-3 hours

**note that the 2-3 hours to process incoming batch files is strictly processing within RFMS and creating acknowledgements of receipt back to schools. However, this processing does not include the "backend" of GAPS funding.*

DoED system
Interfaces: CPS, PEPS, TIVWAN
NSLDS, GAPS, EDEExpress